

Khaoula ALLAK

Data Scientist ,Big Data and Cloud Computing Engineering

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🐙 <https://github.com/khawla12-op>



Summary

Motivated and driven data scientist with a strong background in Python programming, AI/ML, NLP, LLMs and algorithmic thinking. I have experience working with Docker, Kubernetes, and various databases (SQL, NoSQL). I am passionate about having hands-on experience with real-time data analytics and machine learning projects. I possess excellent communication skills .

Education

École Normale Supérieure d'Enseignement Technique
Computer engineering student in Big Data and Cloud Computing

📅 2022-2025 📍 Mohammedia

AL Khansaa
Preparatory Classes

📅 2020-2022 📍 Casablanca

High School Moulay Youssef
Baccalaureate , Mathematical sciences

📅 2019-2020 📍 Casablanca

Experiences

Full Stack Web Development Intern
Ninwid Technologies

📅 Jul 2023- Aug 2023 📍 Casablanca

I had the opportunity to design and develop a complete web application as well as a website aimed at revolutionizing customer management and the sending of announcements. The application I created greatly simplifies the client management process by automating many essential tasks.

AI and Machine Learning Intern

Modeling Simulation and Data Analysis Department

📅 Jul 2024-Present 📍 Ben Guerir ,Marrakesh-Safi

I Developed a cutting-edge solution using Natural Language Processing (NLP), real-time AI processing, machine learning, and computer vision to assist football coaches in making real-time predictions about player performance. The system collects data from sensors placed on players, providing instantaneous feedback on their status, such as fatigue levels, speed, and overall performance, enabling coaches to make informed decisions during games.

Certifications

- Foudation:Data ,Data,Everywhere
- N7 Elloquence challenge
- Introduction to MongoDB
- Linux
- IT Essentials: PC Hardware and Software
- Certificate of Completion -GDSC Lead
- English for IT 1
- EF SET
- Modernizing Data Lakes and Data Warehouses with GCP
- Oracle Cloud Infrastructure Generative AI Professional

Projects

Prediction of chronic diseases:

This project involves developing a prototype for an intelligent device that predicts the progression of chronic diseases. The software component uses machine learning algorithms to analyze patient data, identifying patterns and forecasting disease progression.

MedGPT:

MedGpt is, a cutting-edge use of AI and natural language processing (NLP) in the medical industry. By utilizing cutting-edge language modeling approaches to support healthcare professionals in their work.

GANNET ECONOMIES GROUP:

It's an application developed for specialized daily newspapers focusing on legal advertising.

E-Commerce Analytics with Apache Flink:

This project is for real-time sales analytics, utilizing Docker Compose to orchestrate infrastructure components including Apache Flink, Elasticsearch, and Postgres. The application processes financial transaction data from Kafka, performs aggregations and stores results in both Postgres and Elasticsearch for further analysis.

Foot-Insights:

Developed a sports analytics system using computer vision and machine learning to track players in real-time, identify team affiliation, and calculate key metrics such as ball possession and player speed. This hands-on project leverages AI to elevate football analysis, providing coaches and analysts with advanced insights into game dynamics and player performance.

Skills

- Programming (Python ,C,Java ,C++)
- SQL and database (MongoDB,Neo4j,Cassandra,Redis)
- Big data technologies (Hadoop,Spark)
- Data Driven decision-making
- Machine learning algorithms
- Frameworks (Bootstrap,Express,Node.js,Django, Laravel ,Tensorflow ,Flask)
- Data Engineering Tools (Docker ,Kubernetes , Kafka, Airflow)

Extracurricular activities

- Google Developer Student Clubs **Lead**
- GDSC - N7Geeks **Core team member**
- 2nd Prize Winner in Hackathon Metaverse in Helathcare
- Finalist in N7 Elloquence Challenge
- Organizing N7 Challenge Hackathon
- Organizing CTF

Languages

English - French -Arabic